FAILURE MODES AND EFFECTS ANALYSIS

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REFERENCE DESIGNATOR: GH-MFR-43

PROJECT:

Orbiter

SUBSYSTEM

NAME / QUANTITY:

Handhold Latches (2)

LRU NAME / QUANTITY: WER (1)

EFFECTIVITY:

GFE All Orbiters

DRAWING REFERENCE

SED39129784-301

LRU PART NUMBER:

SED33197967-301

FAILURE MODE NUMBER CRITICALITY **FAILURE EFFECT FAILURE DETECTION METHOD** MFR-03 1R/3 **FUNCTION** END ITEM ELIGHT The handhold latches are used to secure the handhold onto the Latches fall to operate Tactile. MFR. The handhold latches allow the handholds to be installed or properly. removed during EVA.

CAN UPE MODE AND BANGE	┥	GROUND
FAILURE MODE AND CAUSE		Tactile.

MODE

Handhold latches fail open, allowing an inadvertent release of handhold with attached tool boards.

CAUSE(S)

- Contamination
- 2. Thermal distortion
- 3. Piece part defect

REDUNDANCY SCREENS	
A - Pass	 Both fatches must fail open.

B - Pass

C - Pass

 Both latches must fail open. 2. Tool boards are tethered.

INTERFACE

MISSION	CORRECTIVE AC	VE ACTION TIMES	
PHASE	TIME TO EFFECT	TIME TO CORRECT	
EVA	Seconds	Immediately	

MISSION

Partial loss of EVA objectives.

CORRECTIVE ACTION

No effect because tool boards are tethered. For a second failure loose hardware (handhold with loot board) in the payload bay will result.

CREW / VEHICLE

Loose Hardware in Payload bay could impact crew or Vehicle. Possible loss of crew or vehicle.

REMARKS

None.

PREPARED BY: Morgan Garner

REVISION: D

SUPERSEDING DATE: September 1986

DATE: 8/23/98

None.